SCULLY STEEL & IRON COMPANY

Cable Address "SCULIRON" Chicago Iron Age Code on page 8 CHICAGO, ILL., U.S.A.

Distributors of Ironworkers' Tools and Supplies

Products

Boiler Making and Re-PAIRING TOOLS STAY BOLTS AND STAY BOLT TAPS PATCH BOLTS AND PATCH BOLT TAPS
BOILER TEST PUMPS CHAIN HOISTS

I-BEAM TROLLEYS ROTARY SHEARING MA-CHINES MANHOLE FITTINGS Boiler Braces SCREW PUNCHES FLANGES TUBE EXPANDERS

Also, Flue Cleaners, Boilermakers' Hammers, Chain, Chisels for Hand Use and Pneumatic Hammers, Clamps, Hammer Handles, Boiler Lugs, Manhole Bolts, Boiler Manheads and Fittings, Power Punches, Boile Daily Angle Share Par Radial Drills, Angle Shears, Bar Cutters, Reamers, Rivet Forges, Sledges, Mauls, Hand Lever Punches, Hose Couplings, Boilermakers' Screw Plates, Babbitt, Flue Plugs, Copper Ferrules and Steel Supplies.

Scully Service

We carry large stocks of tools, machinery and supplies for boiler shops, ironworkers, structural iron works, railway shops, shipyards, etc.; prompt shipments are thus assured. Our tools are of the very best quality and give the best possible service. We will gladly send catalogues and full information.

Standard Roller Tube Expanders

See Table I for sizes and code words.

Self-Feed Roller Tube Expanders

The rolls, detachable mandrel, frame and guard of this

expander are made of the best tool steel, and tempered. Rolls cannot fall inside or outside when the mandrel is removed. Rolls are double length and reversible; self feeding; furnished with frictionless phosphor bronze bearing, impossible to get out of order, reducing friction to a minimum.



40. SELF-FEED ROLLER TUBE EXPANDER

Standard Sectional Tube Expander

Used mostly on fire boxes of thresher engines and for repair work. When ordering state thickness of tube sheet.



TIG. 150. STANDARD SECTIONAL TUBE EXPANDER

"Ideal" Sectional Tube Expander

This expander is made entirely of best tool steel and tempered. For both hand and power use. When ordering, state thickness of





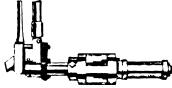


FIG. 375. "IDEAL" SELF-FEED TUBE CUTTER

"Ideal" Self-Feed Tube Cutter

This cutter cuts off new tubes with a bevel ready for eading. Will cut off old tubes inside boiler head.

Tube Beading Tools





FIG. 1005. TUBE BEADING TOOL—HAND

FIG. 1006. TUBE BEADING TOOL—PNEUMATIC

TABLE II. SPECIFICATIONS, TUBE BEADING TOOLS

	For t	and use	For pneumatic hammer			
(1) Size in. (mm.)	34 (19)	7/8 (22)	% (19)	7's (22)		
(2) Code word	GAIN	GLOVE	NIP	NONE		

Scully Railroad Tube Cutter

This is a quick tool for cutting out old tubes. Operates in connection with air drill. Cuts off tubes in 11/3 revo-



FIG. 1007. SCULLY RAILROAD TUBE CUTTER

lutions of cutting FIG. 10 knife. Cuts tubes squarely and without burr. Spring arrangement returns cutter to original position after each cut and motor never

TABLE III. SPECIFICATIONS, SCULLY RAILROAD TUBE CUTTER

(1) Size in. (mm.)	174 (48)	2 (51)	2¼ (57)
(2) Code word	HEED	HERO	HIDE

Threaded Boiler Stay Bolts

Made with squared head, 1 in. (25 mm.) long, 12 Vthreads per in. (2,1 mm. pitch). Carried in stock 18 and 36

in. (457 and 914 mm.) long. Also made any length desired. Specify over all length.



Diameters: $\frac{4}{3}$, $\frac{7}{6}$, $\frac{1}{6}$, $\frac{1}{1}$, $\frac{1}{1}$, $\frac{1}{6}$, $\frac{1}{6}$, $\frac{1}{6}$, $\frac{1}{4}$, $\frac{1}{6}$, $\frac{1}{4}$, $\frac{1}{6}$, $\frac{1}{2}$ and $\frac{1}{6}$ in. (19, 22, 24, 25, 27, 29, 30, 32, 35, 38 and 41 mm.).

Stay Bolt Taps

Carried in stock 12 V-threads per in. (2,1 mm. pitch).



TABLE IV. DIMENSIONS, STAY BOLT TAPS

Dia	meter	I.e	ength	Code	
in.	mm.	in.	mm.	word	
3/4 7/8 11 11/6 11/8 11/4	19 22 24 25 27 29 32	16-18-21 and 24 16-18-21-24 and 30 16-18-21 and 24 16-18-21-24 and 36 18-21 and 24 21 and 24 24 and 36	406-457-533 and 610 406-457-533-610 and 762 406-457-533 and 610 406-457-533 and 610 533 and 610 610 and 914	OFFIM OFFAR OFFUX OFFEL OFFON OFTIS OFTED	

Other diameters, threads and lengths made to or ler.

TABLE I. SIZES AND CODE WORDS, TUBE EXPANDERS AND TUBE CUTTERS

(1) Size of tool for in. outside diameter tube mm	1 25	1 29	$\frac{1!4}{32}$	15 8 35 :	11 2 38	15 s 41	13 ₄ 45	133 48		2 51	21 s 54	23.4 57	28 g (0	21 <u>4</u> 64
 (2) Standard Roller Tube Expanders. (3) Self-feed Roller Tube Expanders. (4) Standard Sectional Tube Expanders (5) "Ideal" Sectional Tube Expanders (6) "Ideal" Self-feed Tube Cutters. 	LAB FASHION PACA	FINC	H FORD PACE	O FONT	LAG FLOSS PACK TILT	FOY TOM	LEE FROG PAD TIDY	FOE TOAL	P	LY	FORUM TRAP	PAIN	FROST TREBLE	LEPRY FOAL PALACE TOTTER WASP
(1) Size of tool for inconside diameter tubemm		23/4 70	3 76	314 83	31/2 89	334 95	102	414 108	4½ 114	434 121	5 127	514 133	512 140	6 152
 (2) Standard Roller Tube Expanders (3) Self-feed Roller Tube Expanders (4) Standard Sectional Tube Expanders 	FLOG	LIAS FAGOT PALL	LAX FROLIC PATH TORE	LAZAS FOWL PATIENT	LEAM FROCK PATRON TOPIC	LEAL FAIRY	LIB FORK PANSE TOAST	LEAP FLOCK	LEAR FOLD	FISK	LEAH FED		FALCUM	LEGATO FEEZE
(5) "Ideal" Sectional Tube Expanders (6) "Ideal" Self-feed Tube Cutters	1	WISK	WAR	WEED	WAX		WEB		WOE	1	WOLF		woon	WIZARD

Note: Expanders and Cutters are made only in sizes for which a code word is given.

Boiler Patch Bolts

Carried in stock 12 V-threads per in. (2,1 mm. pitch.): ½ in. (13 mm.) dia., ¾, 1, 1¼, and 1½ in. (19, 25, 32 and 38 mm.) long; ¾, ¾, ¼ and ¼ in. (16, 19, 21 and 22 mm.) dia., 1, 1¼ and 1½ in., (25, 32 and 38 mm.) long; ¼ and 1 in. (24 and 25 mm.) dia., 1¼ and 1½ in. (32,8 and 38 mm.) long; 1½ in. (38 in. (29 mm.) dia., 1½ in. (38 (29 mm.) dia., 1½ in. (38 mm.) long.



Other lengths and threads made to order.

PATCH BOLT Code: PEXOT

Patch Bolt Taps

Carried in stock ½, fs, 58, 18, ¾, 18, 76, 18, 1, 1 fs and 1¼ in. (13, 14, 16, 18, 19, 21, 22, 24, 25, 27, 29, 30 and 32 mm.) diameter.



L PATCH B Code: PEXIL FIG.

Other threads made to order.

"Perfection" Flue Cleaner

This cleaner is light. strong and simple. The knives The knives remain sharp at all times. Heads are steel drop forgings. scale from Removes scale welded



"PERFECTION" FLUE CLEANER FIG. 1012.

flues and carbon from old tubes without cutting the metal.

TABLE V. SPECIFICATIONS—"PERFECTION" FLUE CLEANERS

Size o	ise of Flue Code Size of Flue						Size of Flue		Code		
in. 11/4 11/2 13/4 2	32 38 45 51	JAB JACK JELLY JOWL	in. 21/4 21/2 23/4	57 64 70	JOY JUDGE Word	in. 3 31/4	76 83	word JUNK JUMP	31/2 4 41/2 5	89 102 114 127	JURY JUST JUTE JUTTY

Boiler Test Pump

This is a double-acting pump for pressures up to 500 lb. per. sq. in. (35 kg./cm²). It has brass piston (packed) of 2 in. (51 mm.) dia.; brass piston rod, 5 in. (127 mm.) stroke, and forged connections. It has 1 in. (25 mm.) successions of the strong diagrams. tion pipe and % in. (19 mm.) discharge pipe. Net weight, 60 lb. (27 kg.). Code word: KALER.



Chain Hoists

"YALE" TRIPLEX HIGH SPEED CHAIN HOIST-Handles the heaviest loads with ease, rapidity and with absolute safety.

"YALE" DUPLEX CHAIN HOIST-Screw geared block, designed especially for lightness and compactness in portable use.

"CYCLONE" HIGH SPEED CHAIN HOIST—Strongly built for speed and safety. The bearings have graphite bronze bushings. Hoists are self lubricating.

DIRECT DIFFERENTIAL CHAIN HOIST-For use where speed is not an important feature.

We can furnish any of these chain blocks with extra lift if desired.

TABLE VI. SPECIFICATIONS-DUPLEX CHAIN HOISTS

Capacity long or metric tons		ndard pist	Mini dista betw hoc	nce reen	Res	Reach		et ght	Gross weight		Code word
Wills	ft.	m.	in.	m.	ftin.	m.	lb.	kg.	lb.	kg.	
11/2	8 8	24,38 24,38	13 16	0,33 0.41	9-1 9-4	2,77 2.84	46 59	21 27	56 73	25 33	SAWUV SAWXO
11/2	8 9	24,38 27,43	19 21	0,48 0,53	9-7 10-9	2,92 3,28	81 104	37 47	100 130	45 59	SAWYW SAXAR
3 4	10 10	30,48 30,48	25 29	0,63 0,74	12-1 12-5	3,68 3,78	187 221	85 100	234 265	106 120	SAXCY SAXES
5 6	12 12	36,58 36,58	31 33	0,79	14-7 14-9	4,44	331 310	150	406 385	184 175	SAXHA SAXIT
8 10	12 12	36,58 36,59	36 45	0,91	15-0 15-9	4,57 4,80	416 578	189 262	491 653	223 296	SAXLE SAXOV

TABLE VII. SPECIFICATIONS-TRIPLEX CHAIN HOISTS

Capacity long or metric		Standard hoist		Minimum distance between hooks		Net weight		weight	Code word
tons	ft.	m.	in.	m.	lb.	kg.	lb.	kg.	-
1/2	8	2,44	13	0,33	58	26	76	84	SAVKY
32	8	2,44	13	0,33	58	26	76	34	SAV06
1	8	2,44	16	0,41	92	42	115	52	SAVPA
13/2	8	2,44	18	0.45	132	60	160	73	SAVTE
3	9	2,74	21	0,53	202	92	248	112	SAVUT
3	10	3,05	32	0,81	209	95	256	116	SAVXI
4	10	3,05	37	0,94	299	136	356	161	SAVYO
5 6 8	12	3,66	45	1,14	411	186	482	219	SAWAP
6	12	3,66	46	1,17	411	186	482	219	SAWCU
8	12	3.66	49	1,24	500	277	576	261	SAWER
10	12	3,66	54	1,37	610	277	700	318	SAWGY
12	12	3,66	54	1,37	855	388	1100	499	SAWIS
16	12	3,66	62	1,57	1041	472	1325	601	SAWLA
20	12	3,66	70	1,78	1350	612	1675	760	SAWOT

TABLE VIII. SPECIFICATIONS-"CYCLONE" CHAIN HOISTS

Capacity long or metric	long or lift metric		Net weight			weight xed	dis bet	ortest tance ween ooks	Code word	
tons	ft.	· m.	lb.	kg.	lb.	kg.	in.	m.	1	
1/2	-8	2,44	71	32	89	40	15	0,38	RAY	
1 -	8	2.44	l 99 I	45	107	49	17	0.43	RASH	
11/2	8	2.44	118	54	136	62	19	0.48	REACH	
2	9	2,74	161	73	184	83	21	0.53	READ	
3	10	3.05	226	103	267	121	22	0.56	REGARD	
4	10	3.05	260	118	315	143	34	0,86	RELEASE	
5	12	3.66	376	171	443	201	38	0,96	RELAY	
5 6 8	12	3,66	410	186	477	216	41	1.04	REMAND	
Ř	12	3,66	484	220	557	253	43	1.09	REMEDY	
10	12	3,66	652	296	722	327	47	1,19	RENT	
12	12	3,66	695	315	779	363	50	1.27	REPLACE	
16	12	3.66	872	395	1022	463	1 44	1,12	REPLY	
20	12	3,66	1600	726	1927	874	50	1.27	REPORT	
30	12	3,66	1860	844	2187	992	63	1.60	REPROVE	
40	1 12	3,66	2120	962	2555	1158	82	2.08	RESCUE	

TABLE IX. SPECIFICATIONS—DIFFERENTIAL CHAIN HOISTS

Capacity long or		t of lift	Net w	eight		weight axed	Code word	
metric tons	ft.	m.	lb.	kg.	lb.	kg.		
1 1 1 1 2 2 3	6 7 8 8 8 9 10	1,83 2,14 2,44 2,59 2,74 3,05	22 30 50 81 125 180	10 14 23 37 57 82	28 38 61 99 145 210	13 17 28 45 66 95	RIDE RIG RIGHT RIME RINK RIPE	



FIG. 1014. "YALE" DUPLEX

FIG. 1015. "YALE" TRIPLEX CHAIN HOIST

FIG. 1016. "CYCLONE" CHAIN

FIG. 1017. DIFFEREN-TIAL CHAIN HOIST

Pneumatic Rivet Sets

These rivet sets are carried in head for countersunk head rivets. Flush sets with flat, convex or concave end, made to order.



FIG. 1019. PNEUMATIC RIVET SET. Code word: PORIS

Pneumatic Stay Bolt Headers These headers have center points for bolts with telltale holes or hollow bolts. Carried in stock for ¾, ½, ½, 1, 1½, 1½ and 1¼ in. (19, 22, 24, 25, 27,

FIG. 1020. PNEUMATIC STAY BOLT HEADER. Code word: PONIS

29 and 32 mm.) stay bolts. Other sizes made to order. "Kelly" Tube Flaring Tool

This tool turns over the ends of the tube before expanding. Works rapidly and does not crack or injure tubes. Carried for 2, 24 and 24 in. (51, 57, and 64 mm.) tubes.



rool. Code word: "KELLY" FLARING TOOL

Scully Weldless Steel Boiler Brace



FIG. 1022. SCULLY WELDLESS STEEL BOILER BRACE.
Code word: POSOT

Brace is easily fitted and will gather little scale. Sizes: Diameter of body from 1½ to 1½ in. (29 to 32 mm.); lengths from 2 to 9 ft. (0.6 to 2,7 m.). Made to American Society of Mechanical Engineers' (A. S. M. E.) specifications.

Scully Forged Steel Manhole Heads

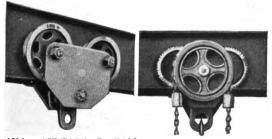
For 11 x 15 in. (279 x 381 mm.) manholes. Forged from billets. Light and strong; easily fitted. We also carry "Eclipse" manhole heads (cast iron) for 9 x 14 in. (229 x 356 mm.), 10 x 16 in. (254 x 406 mm.) and 11 x 15 in. (279 x 381 mm.) manholes. 381 mm.) manholes. We also furnish saddle plates for

single or double row of rivets for all diameters of boilers and tanks.



FIG. 1023. SCULLY FORGED STEEL MAN-HOLE HEAD. Code word: POSED

"Ideal" I-Beam Trolley



1024. "IDEAL" I-BEAM FIG. 1025. "IDEAL" I-BE TROLLEY, PLAIN TROLLEY, GEARED

TABLE X. SPECIFICATIONS-"IDEAL" I-BEAM TROLLEYS

0	Size light I	beams to which	1	lain tro	olleys	Ge	ared tro	lleys	
Capacity long or metric		re adjustable		roxi- weight	Code	App mate	Code word		
tons	in.	mm.	lb. kg. word		word	lb.	kg.	word	
1/2		102-127-152-178		11	OAK		_		
1		127-152-178-203			OBEY	-	i	l —	
. 2		152-178-203-229		34	OBJECT		L		
3		203-229-254-305	130	59	OBLIGE	150	68	OGLE	
4	10, 12 and 15		200	91	OBTUSE	225	102	OIL	
5	12, 15 and 18	305-381-457	250	113	OCCUR	300	136	tOLD	
6	15, 18 and 20	381-457-508	300	136	OCEAN	350	159	OLIVE	
8	18, 20 and 24	457-508-610	400	181	ODD	450	204	ONCE	
10	20 and 24	508-610	525	238	OFFEND		261	OPEN	

This trolley will handle loads swiftly and safely. structed with steel side plates and equipped with roller bearings adjustable for different sizes of I-beams.

Cast Steel Screw Punches

We carry a complete stock of all sizes of punches and dies. We also carry screw punches with square head for ratchets and ratchet handles for same.

TABLE XI. SPECIFICATIONS—CAST STEEL SCREW PUNCHES

		Will;	punch							
Sise of Punch	Size o hole		Thickness of metal		Depth of throat		Weight		Code word	
	in.	mm.	in.	mm.	in.	mm.	lb.	kg.		
ZA ZB ZC ZD ZE ZG	% X X 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	8 13 13 19 19	1/4 1/4 5/16 1/2 5/8 1/4	6 8 13 16 19	11/2 11/2 11/2 11/2 21/4 3	38 38 38 57 76 102	15 17 27 40 60 110	7 8 12 18 27 50	MACE MAN MEAL MEET MILE MORE	



FIG. 1026. CAST STEEL SCREW PUNCH

"Wangler" Ro-Bevel tary Shears

These shears will bevel plates and angles, either straight or irregular. They can be furnished with special front hold-down which will accommodate angles and plates without change, eliminating the of extra use help.

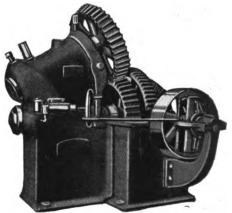


FIG. 1027. "WANGLER" ROTARY BEVEL SHEARS

TABLE XII. SPECIFICATIONS—"WANGLER" ROTARY BEVEL SHEARS

Sizes	Сар	acity	Diamet cutter		W	eight	Power required	Code	
	in.		in.	mm.	lb.	kg.	h. p.	word	
Z34 Z40	13/4	19 25	91/4 113/4	235 298	5300 9500	2400 4300	71/2	SASH	

Scully Rotary Splitting Shears

These shears will cut plates of any length or width. The cutting is done by means of two hardened tool steel cutting discs having the edges milled to make self feeding. Both cutters are reversible. All gears are spur gears, having the teeth cut from solid metal. Both cutters are adjustable vertically to allow for the cutting of different thicknesses of plate.

The belt driven shears carried in stock. are Both belt and motor driven machines have friction clutch so that cut may be started or stopped instantly.



TABLE XIII. SPECIFICATIONS—SCULLY ROTARY SPLITTING SHEARS

No.	Capacity plate		Diameter cutters		Thickness cutters		Weight		Floor Space		Power	Code
	in.	mm.	in.	mm.	in.	mm.	lb.	kg.	in.	m.	h.p.	, #01 u
Z1 Z2	1/2	13 19	12 15	305 381	11/8 13/4	29 35	6500 12300		44x60 54½x73	1,1x1,5 1,4x1,9	10 15	SCAMP SCARF